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*Plants, Geology, Soils, Petroleum.

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of standard plots (which contained bitumen in the soil)
and of control plots without bitumen. The geobotanical
characteristics of bitumenesity were thereby estab-
lished. Plots had areas of 250 to 5000 m² each. The
presence of bitumen in the soil was established by
special analyses. The samples for analysis were
taken from the soil layer around the roots and also
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DESCRIPTORS: *Pipes, Steel, Metals, *Welding,
High frequency, Electric currents, Resistance.

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TT-65-62687

Field 6M

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APPARATUS FOR STUDY OF THERMOELASTIC
PROPERTIES OF RUBBERS UNDER ADIABATIC
CONDITIONS OF ELONGATION. [1961] 5p. 10 refs.
Order from OTS or SLA \$1.10 61-20049

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1957, no. 6, p. 92-94.

DESCRIPTORS: *Rubber, Deformation, Thermody-
namics, Elasticity, Measurement, Crystallization,
*Thermocouples, *Extensometers, Vacuum
apparatus.

Two apparatuses are described, which permit a study
of thermoelastic properties and "crystallization"
processes in rubbers following the method of adiabatic
elongation in the interval of temperatures -20° to
 $+100^{\circ}\text{C}$ with speeds of deformation $d\lambda/d\tau = 0.04$ to 0.07
 sec^{-1} and $d\lambda/d\tau = 1$ to 4 sec^{-1} . (See also 59-18532)

I. Votinov, M. P.
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(Materials--Rubber,
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SLIDE WIRE EXTENSOMETER FOR DETERMINA-
TION OF ELONGATION OF RUBBER IN STRETCH-
ING TESTS. [1961] 3p. 2 refs.
Order from OTS or SLA \$1.10

61-20050

Trans. of Pribery i Tekhnika Eksperimenta (USSR)
1957, no. 5, p. 122-123.

DESCRIPTORS: *Rubber, Deformation, Thermody-
namics, Elasticity, Measurement, *Extensometers,
Operation.

The extensometer permits fairly accurate and de-
pendable measurement of elongations during deforma-
tion of rubbers at speeds of 100 to 400%/sec in the
temperature interval -15° to +85°C, both in cyclic
elongation and contraction and elongation to break.
(See also 61-20049)

(Materials--Rubber, TT, v. 6, no. 12)

61-20050

I. Votinov, M. P.
II. Kuvshinski, E. V.

Office of Technical Services